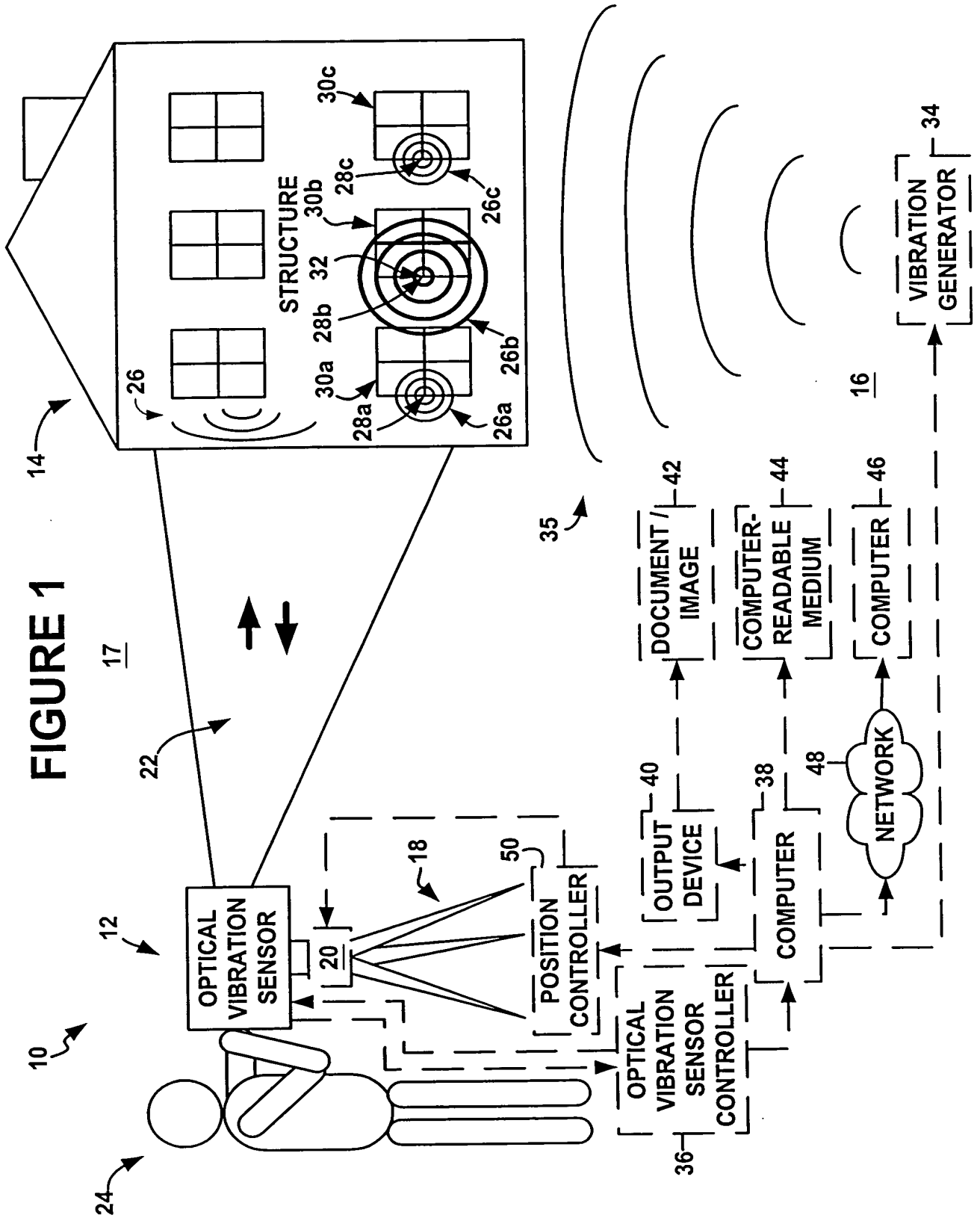
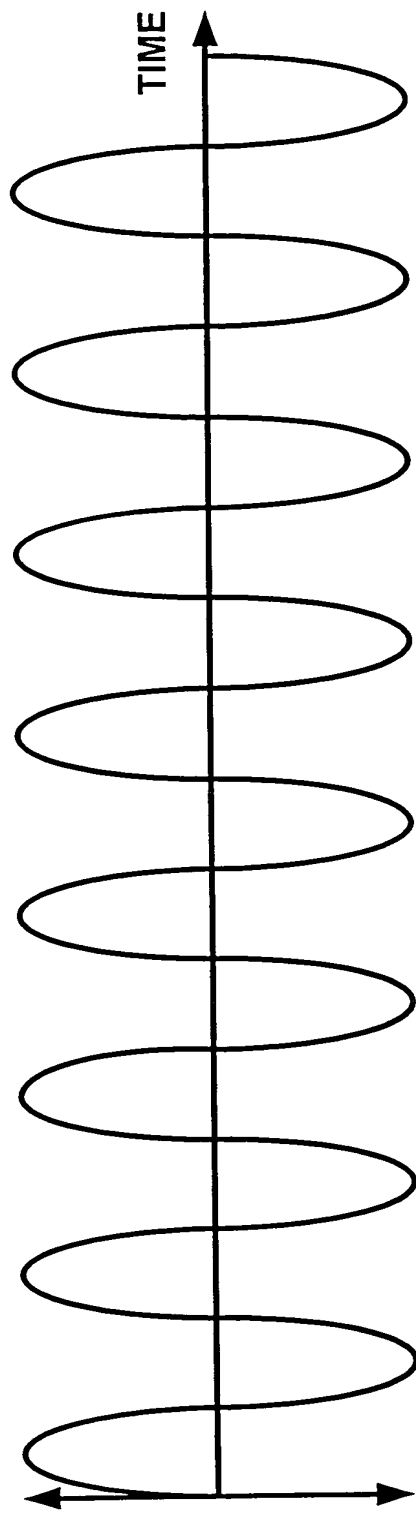


FIGURE 1



ELECTRIC FIELD



PERIOD T OF VIBRATION

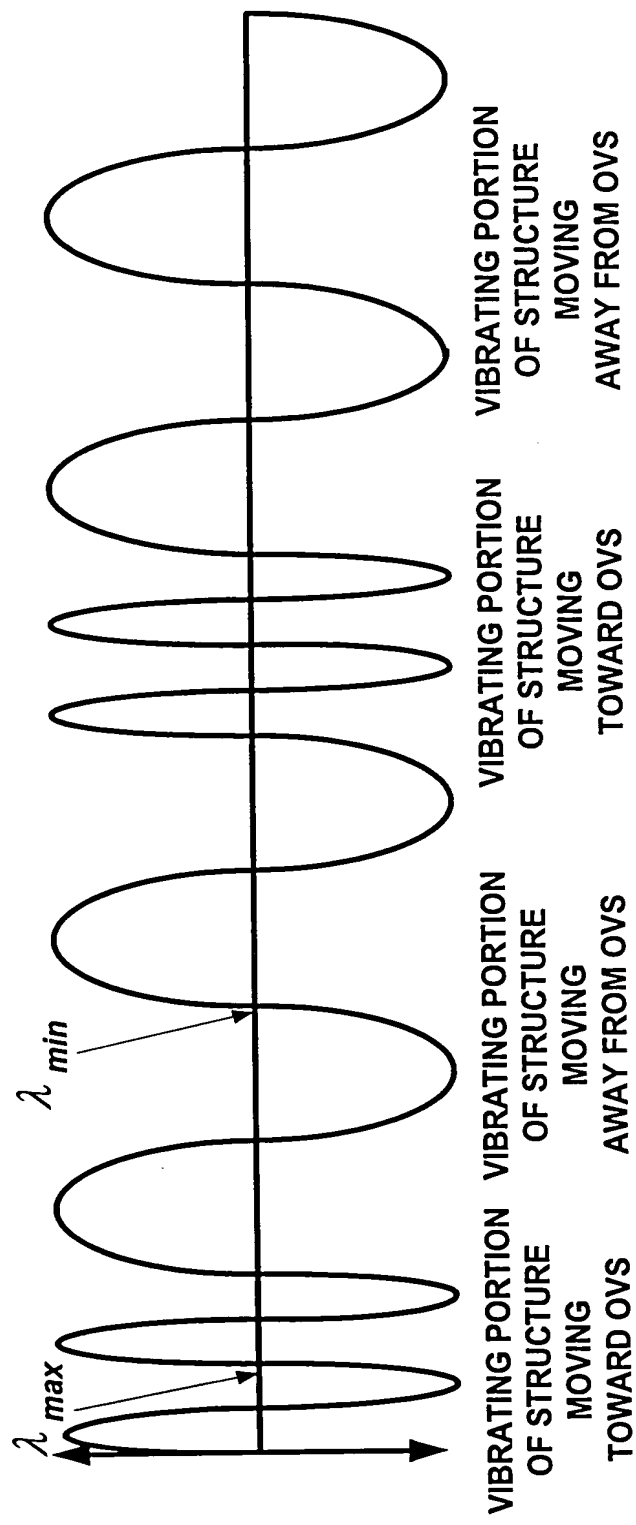


FIGURE 3

OPTICAL VIBRATION SENSOR

12

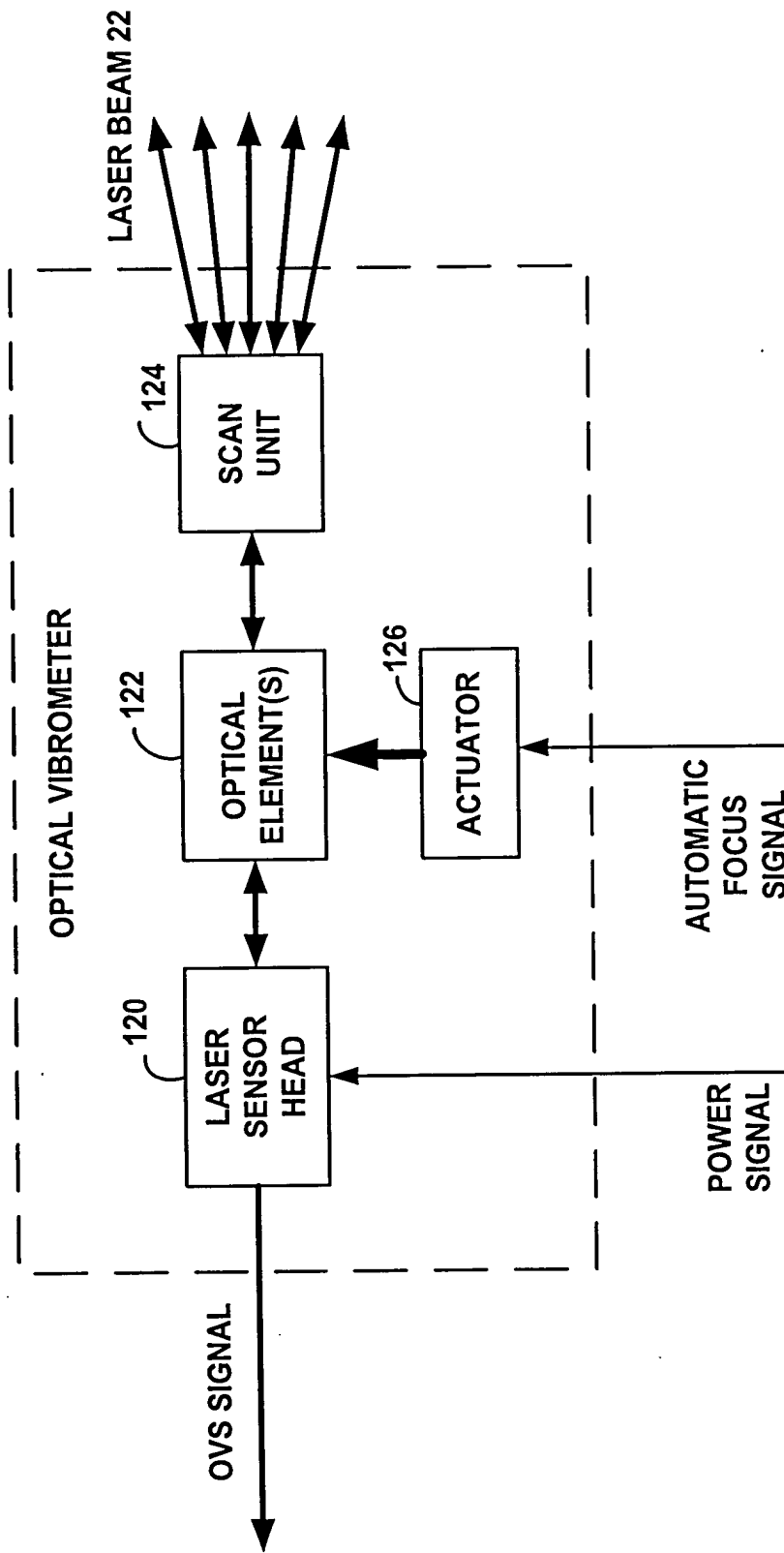


FIGURE 4

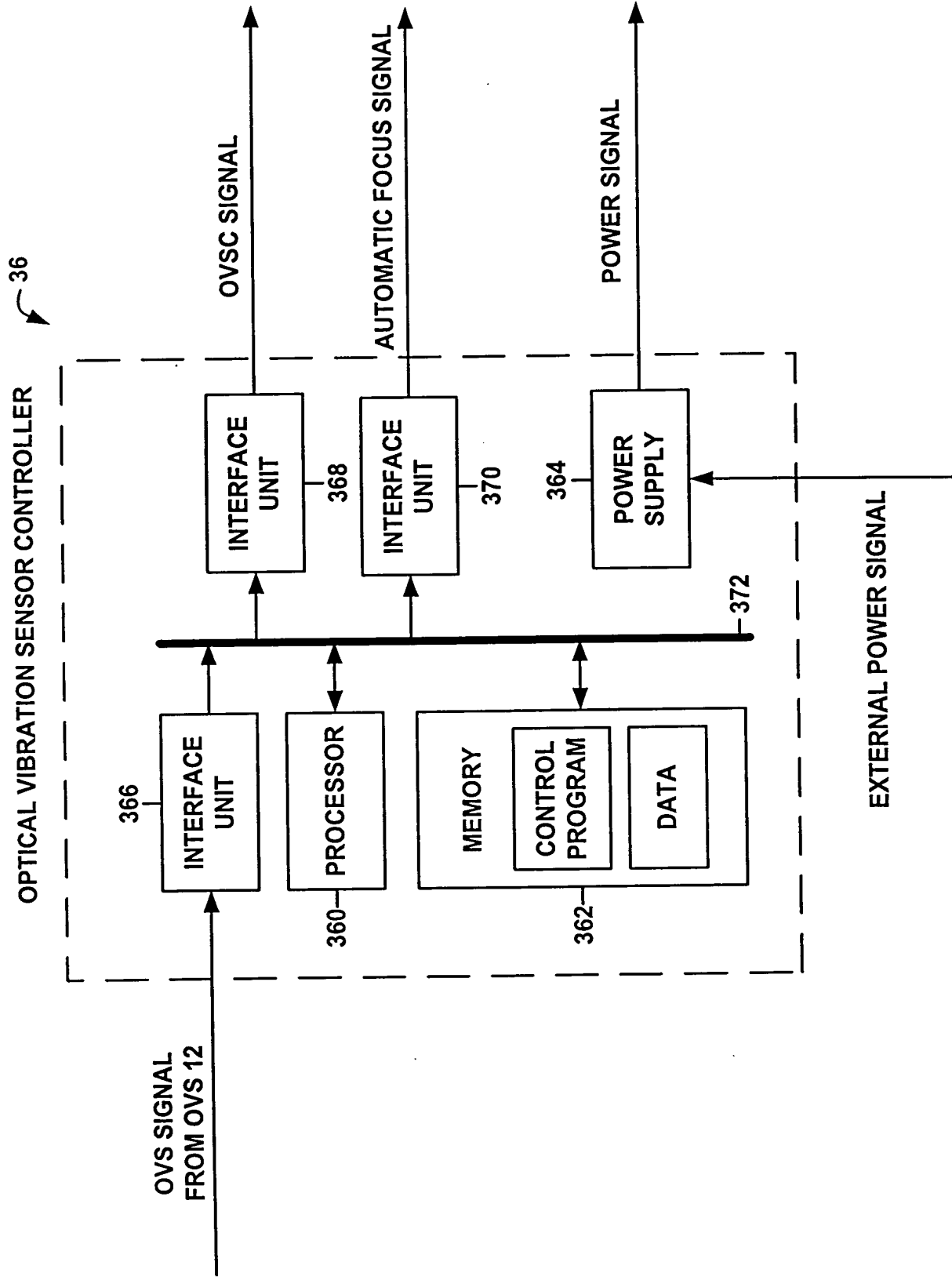


FIGURE 5

FROM OVS 12 AND/OR
OVSC 36

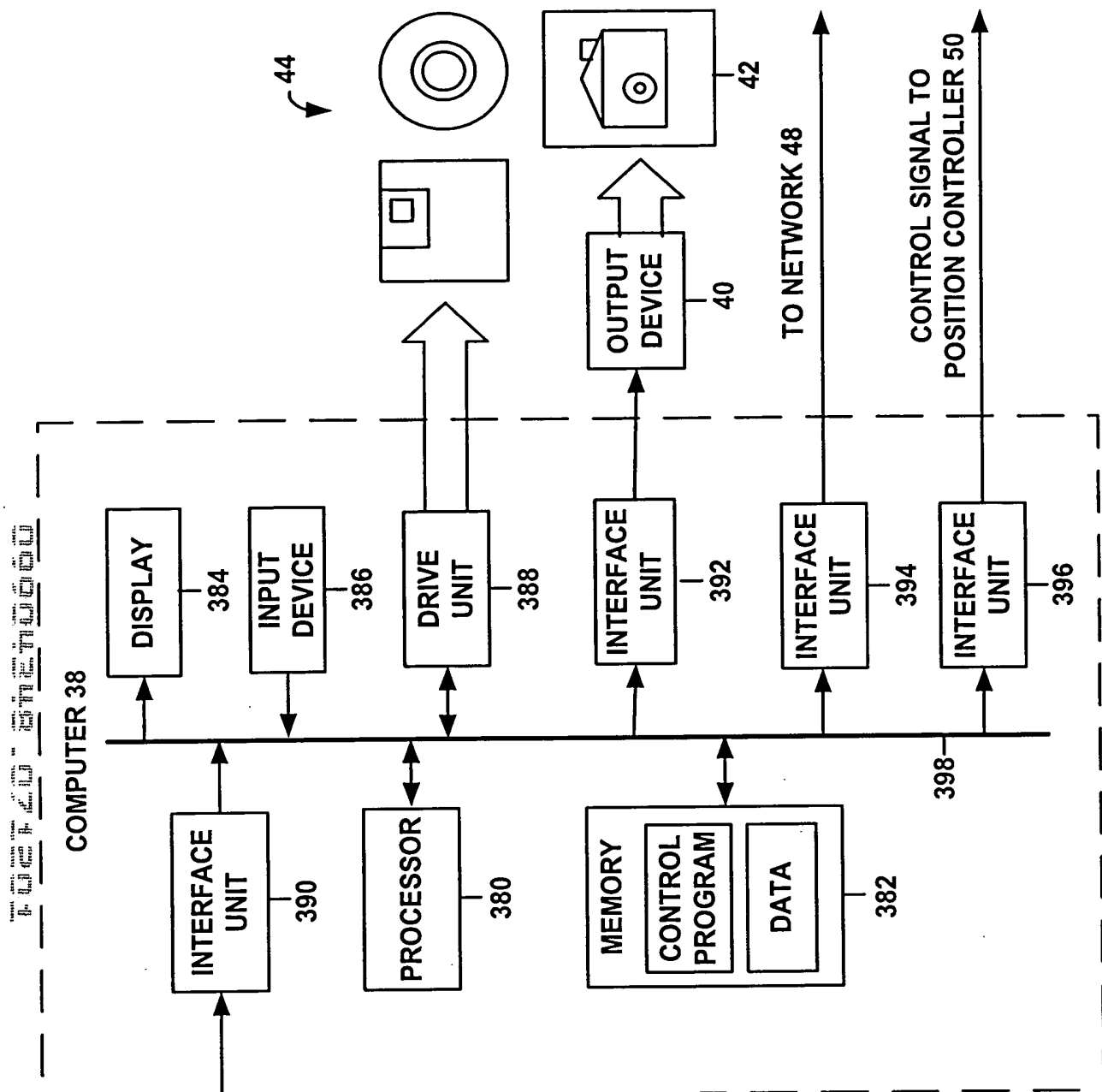
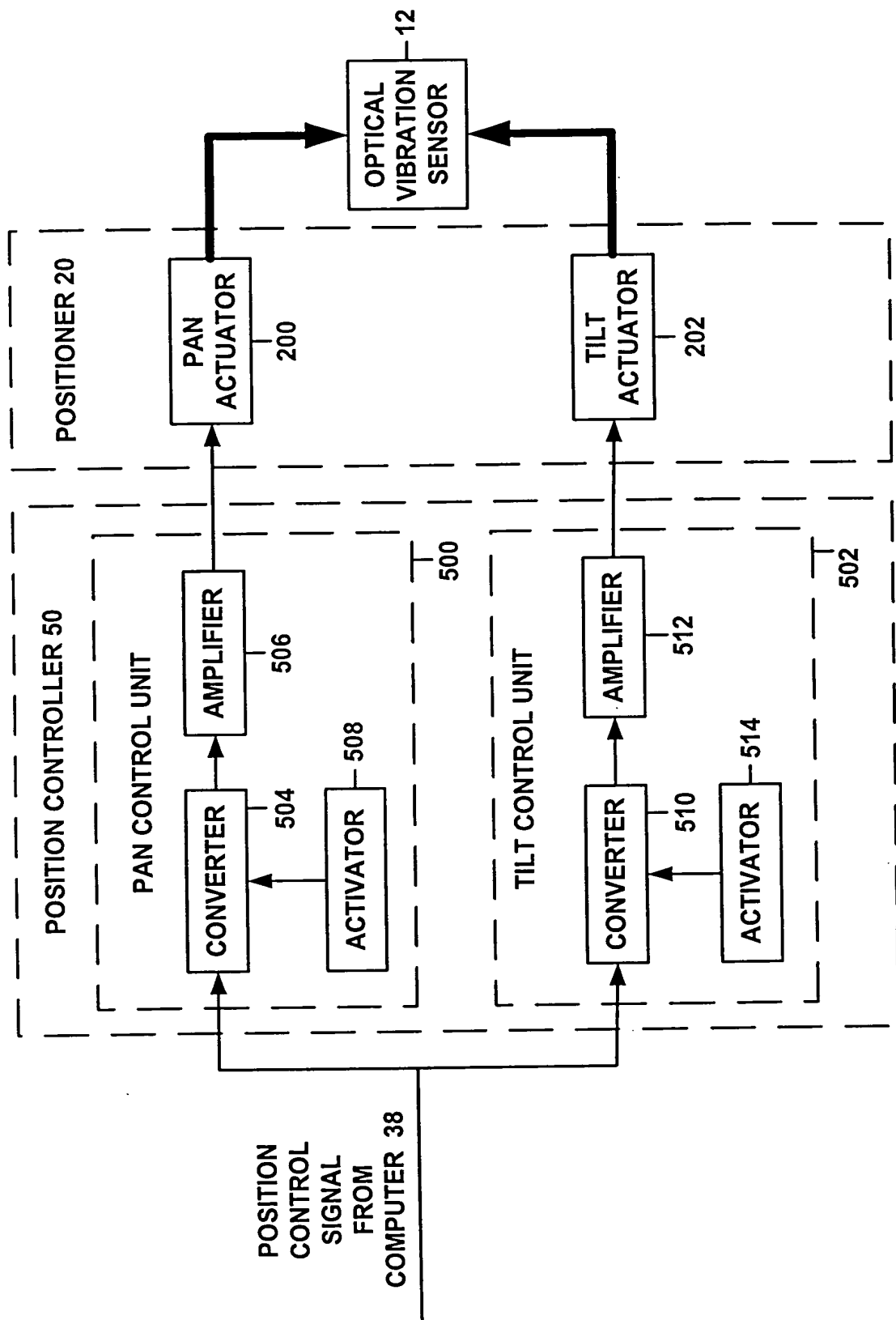


FIGURE 6



10

FIGURE 7A

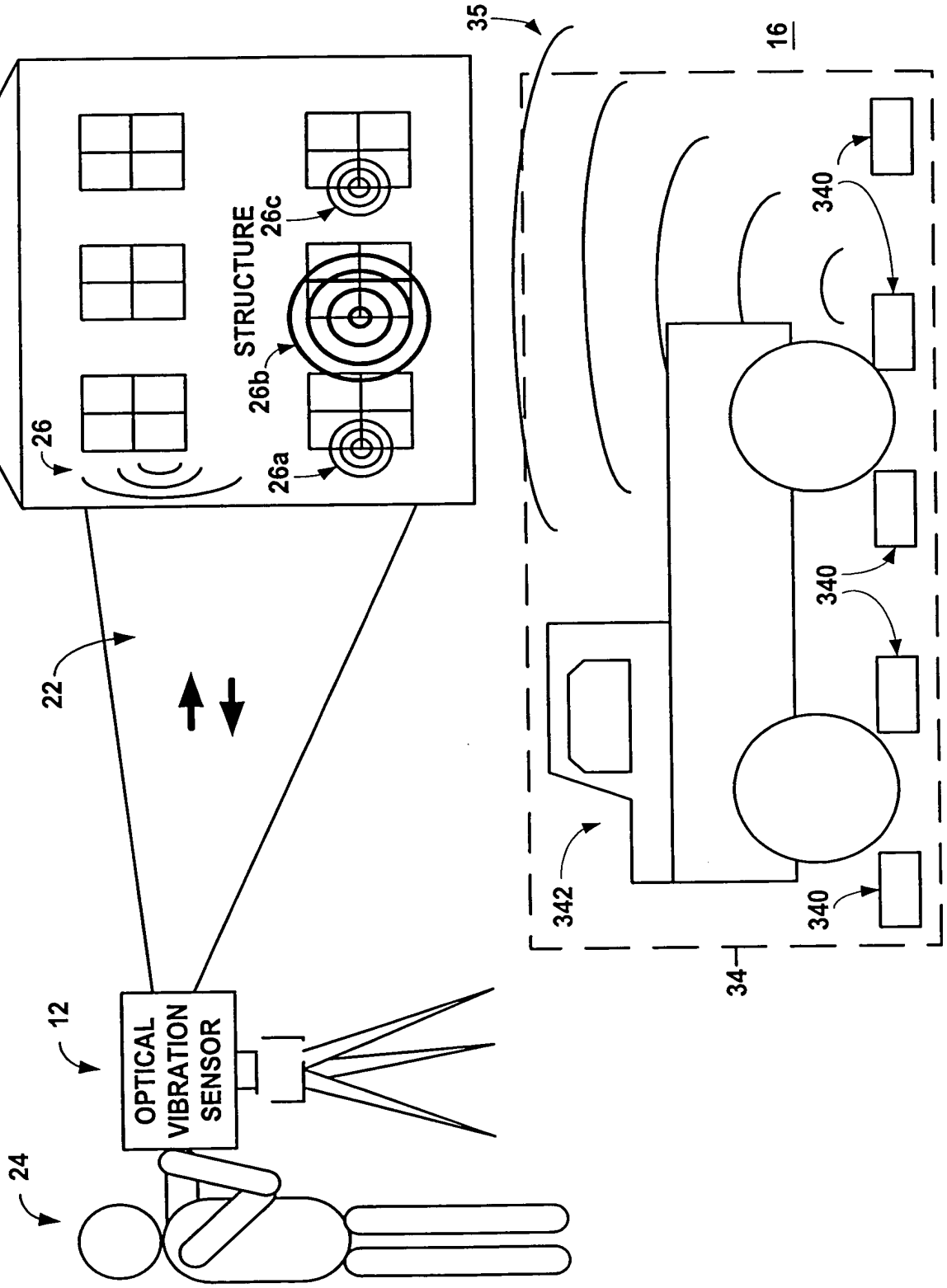


FIGURE 7B

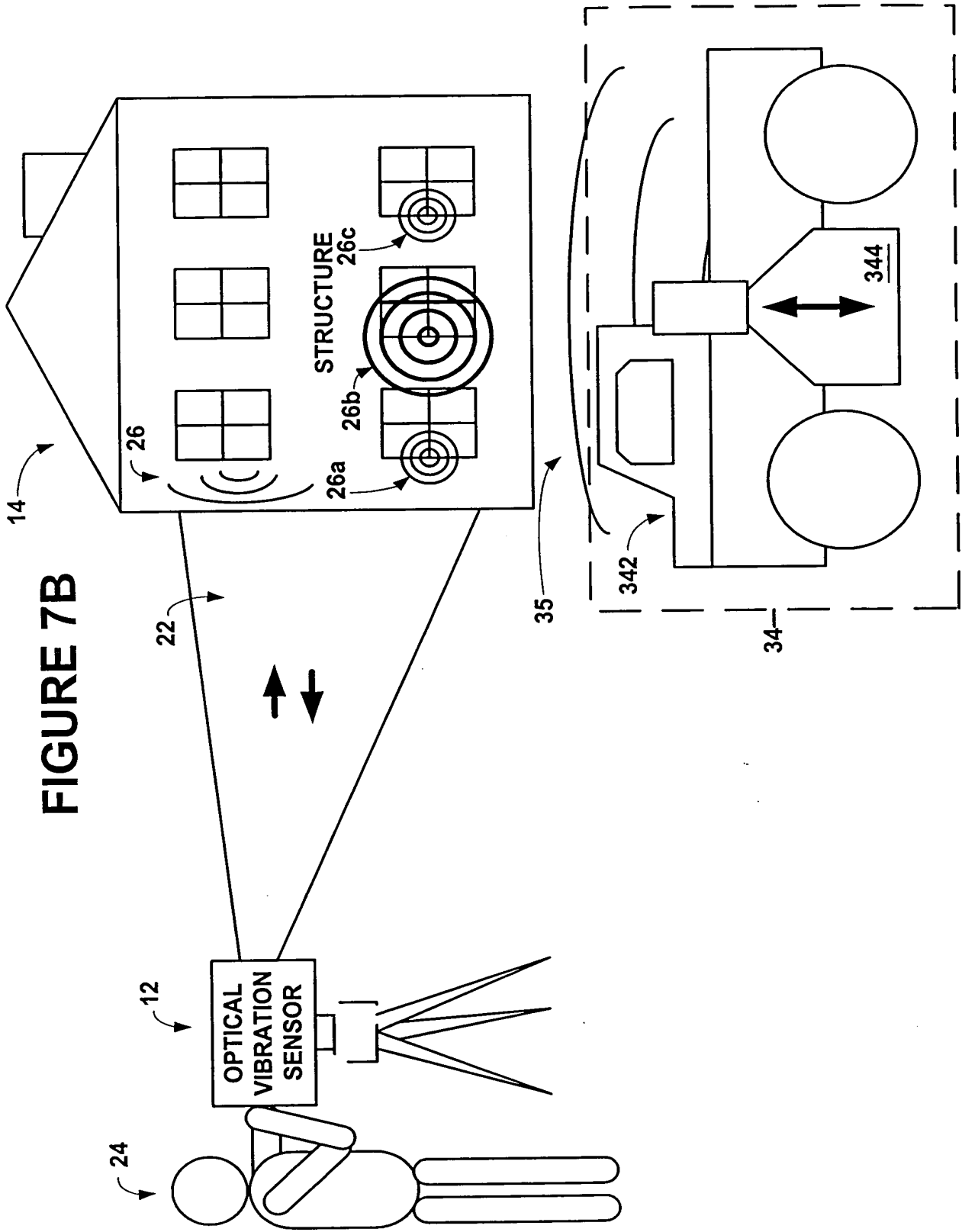


FIGURE 7C

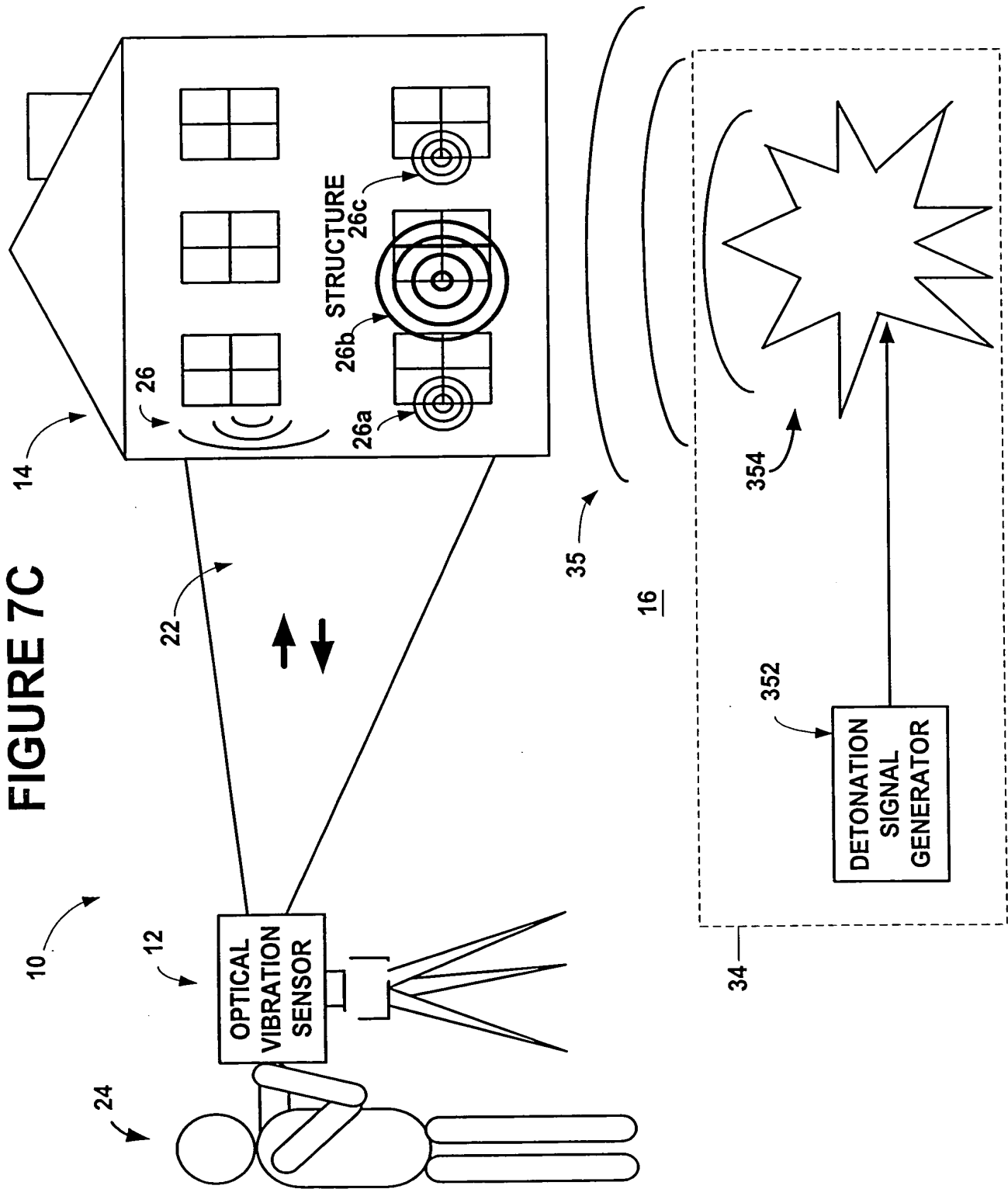


FIGURE 7D

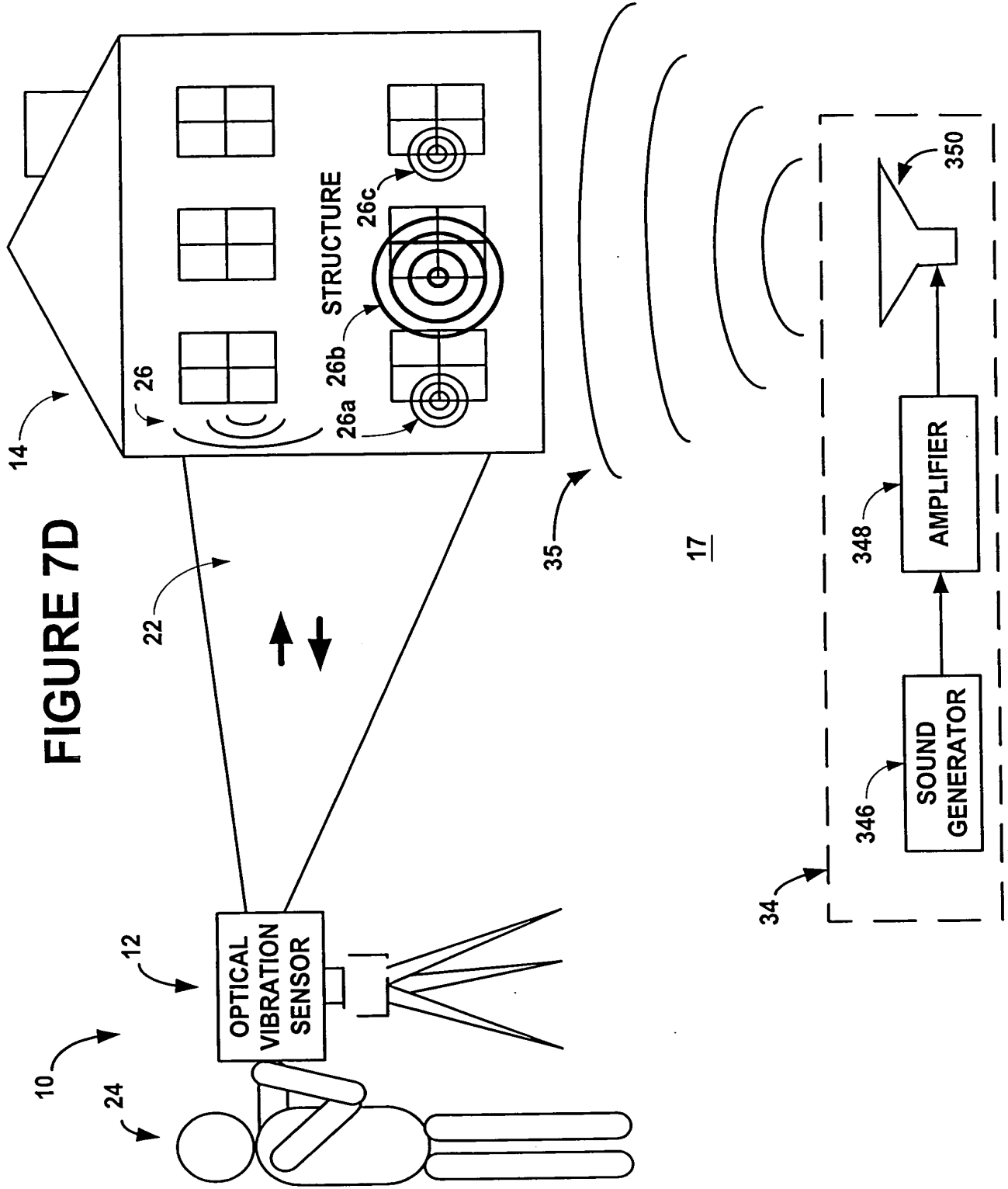


FIGURE 7E

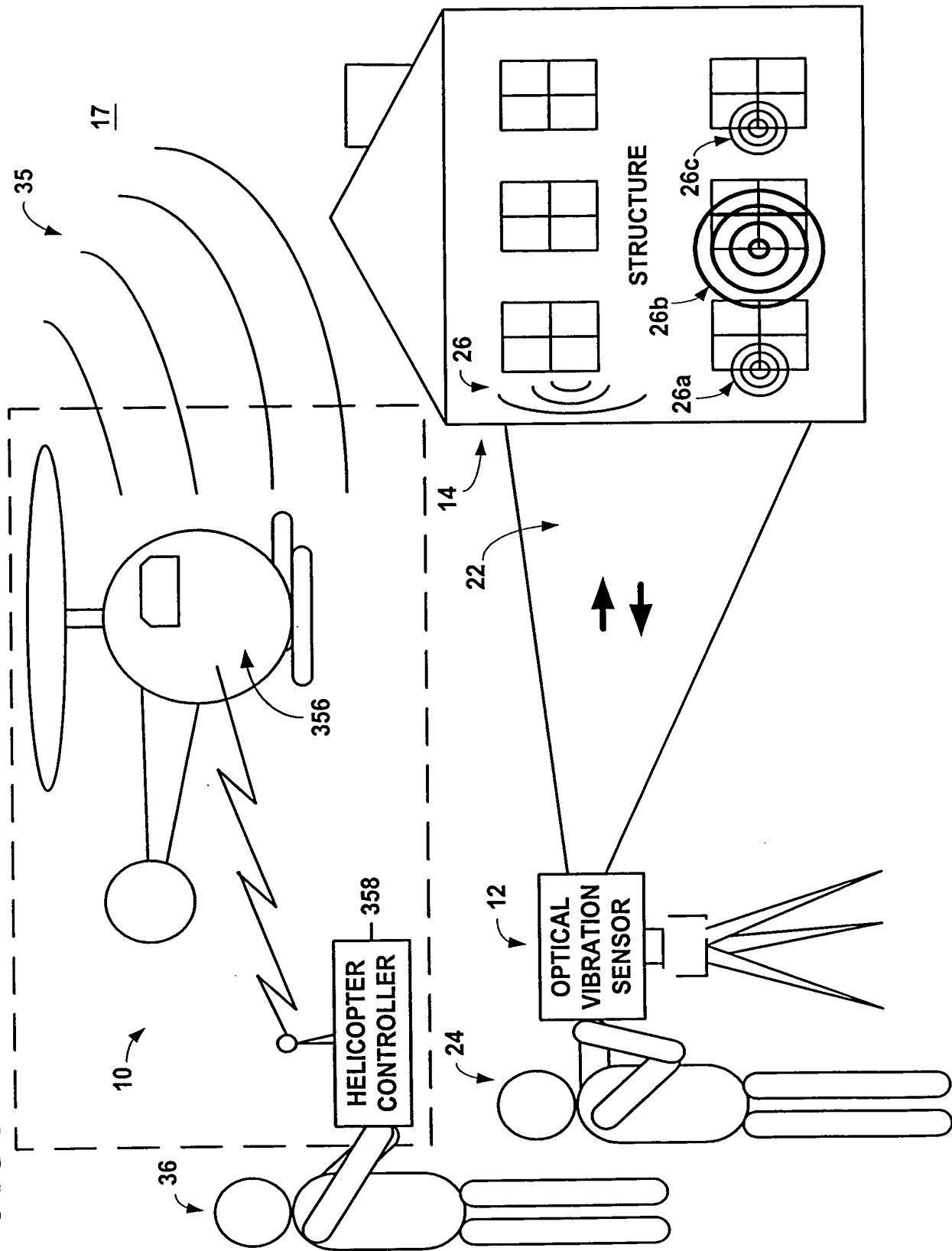
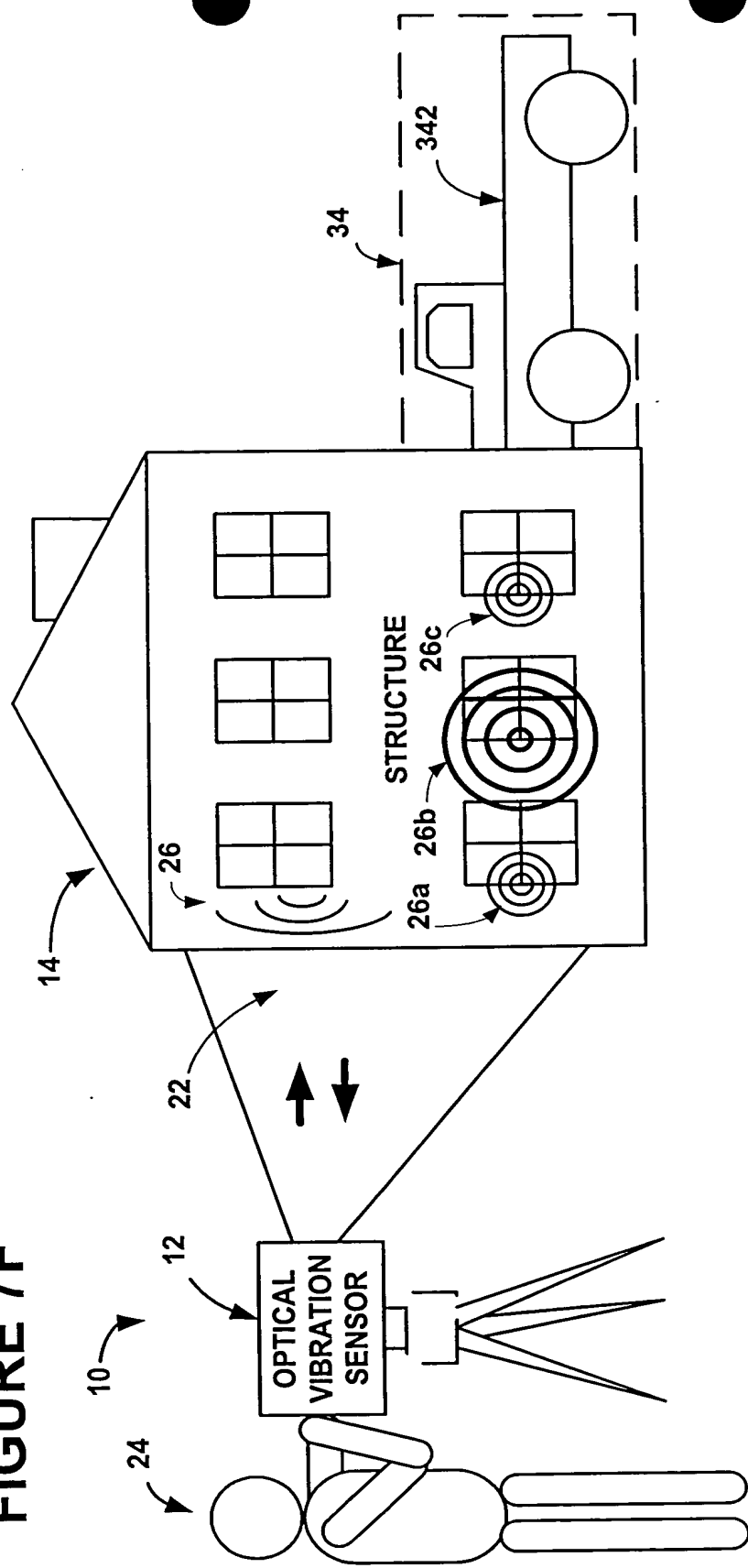


FIGURE 7F



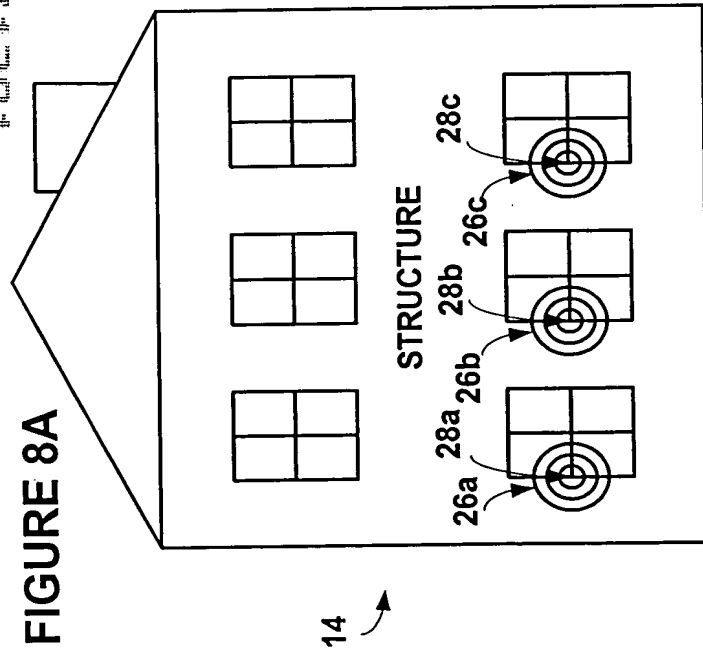


FIGURE 8B

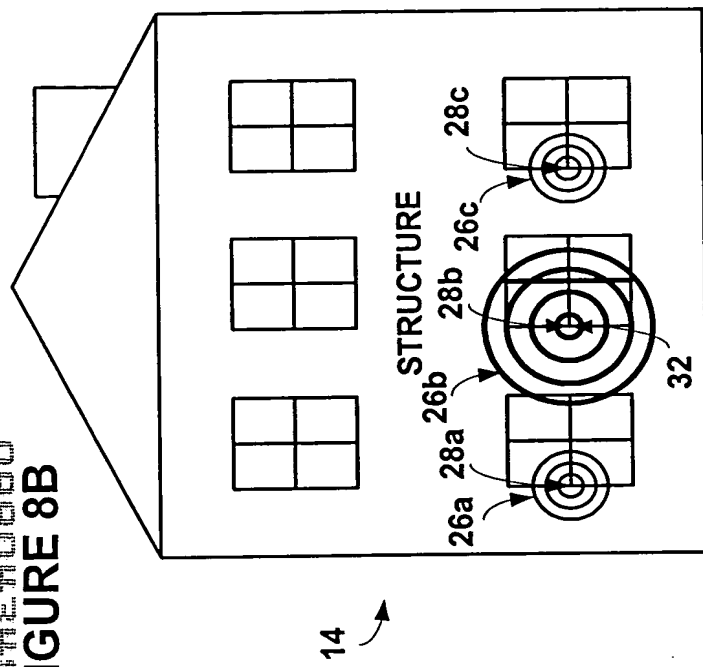


FIGURE 9A

BASE LINE DATA	
.....
.....
4.....3.....4.....
.....
.....

FIGURE 9B

LATER-ACQUIRED DATA	
.....
.....
4.....556.....4.....
.....
.....

FIGURE 10

GENERAL
METHOD

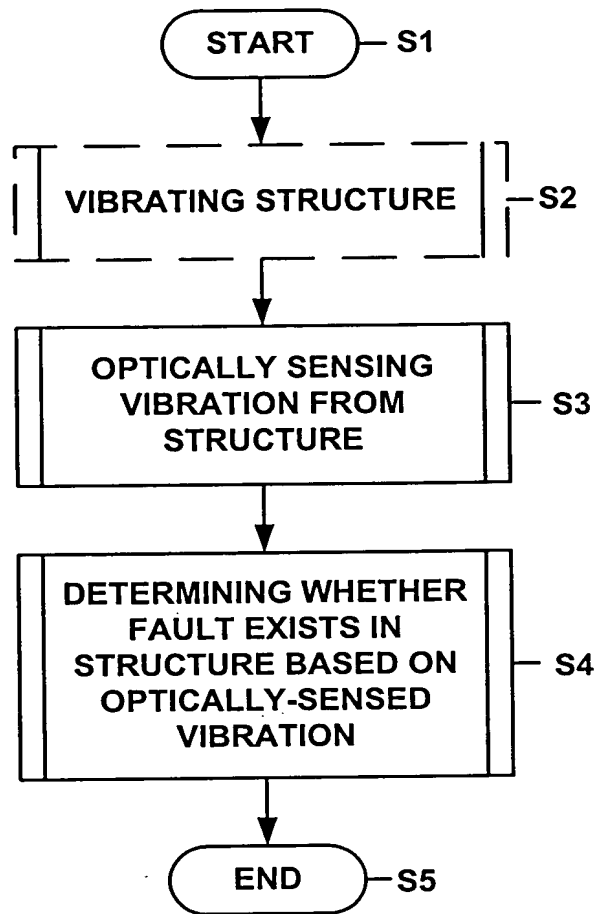
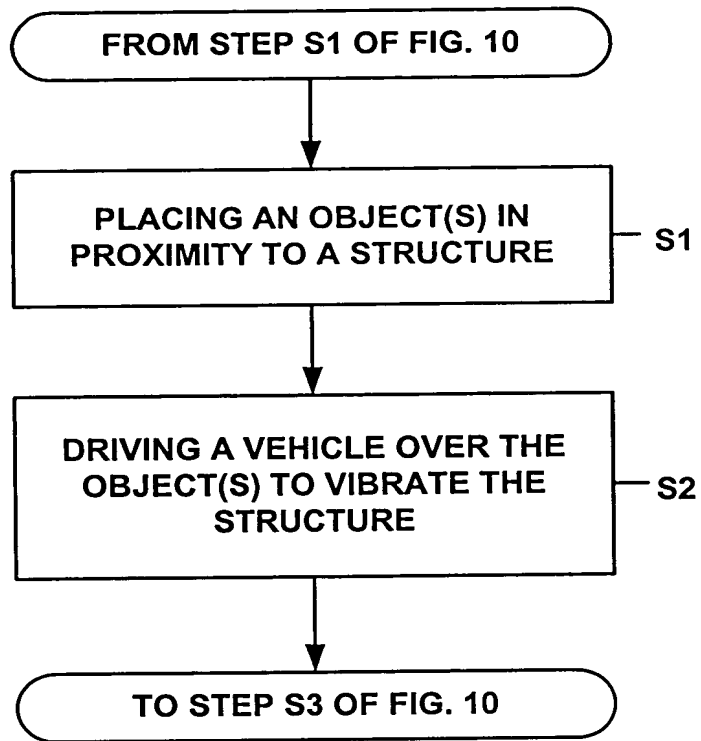
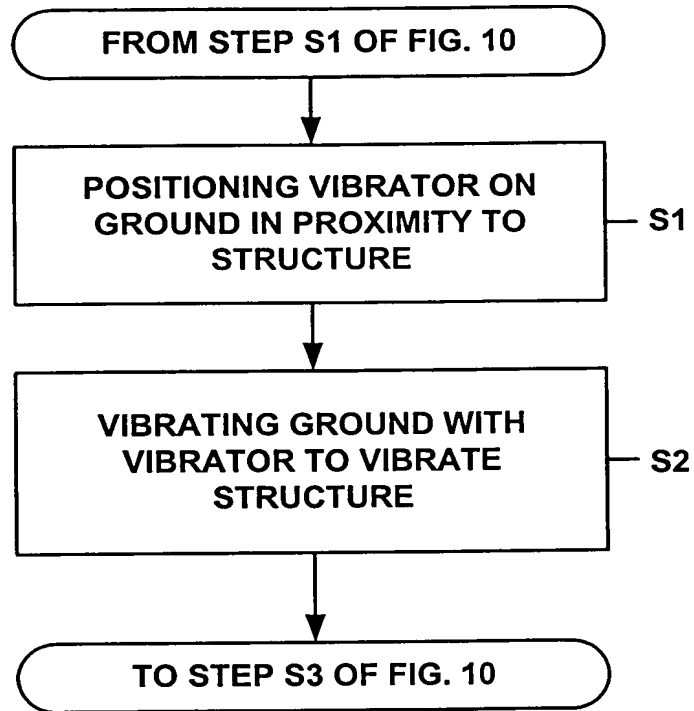


FIG. 10

FIGURE 11A



Patented by the U.S. Patent and Trademark Office on 08/01/2007. Patent No. 7,311,000. Inventor: [illegible]

[illegible]


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graph TD; A([FROM STEP S1 OF FIG. 10]) --> B[GENERATING DETONATION SIGNAL S1]; B --> C[DETONATING EXPLOSIVE BASED ON DETONATION SIGNAL TO PRODUCE EXPLOSION TO VIBRATE STRUCTURE S2]; C --> D([TO STEP S3 OF FIG. 10])
```

FROM STEP S1 OF FIG. 10

GENERATING DETONATION SIGNAL S1

DETONATING EXPLOSIVE BASED ON DETONATION SIGNAL TO PRODUCE EXPLOSION TO VIBRATE STRUCTURE S2

TO STEP S3 OF FIG. 10

[illegible]

FIGURE 11D

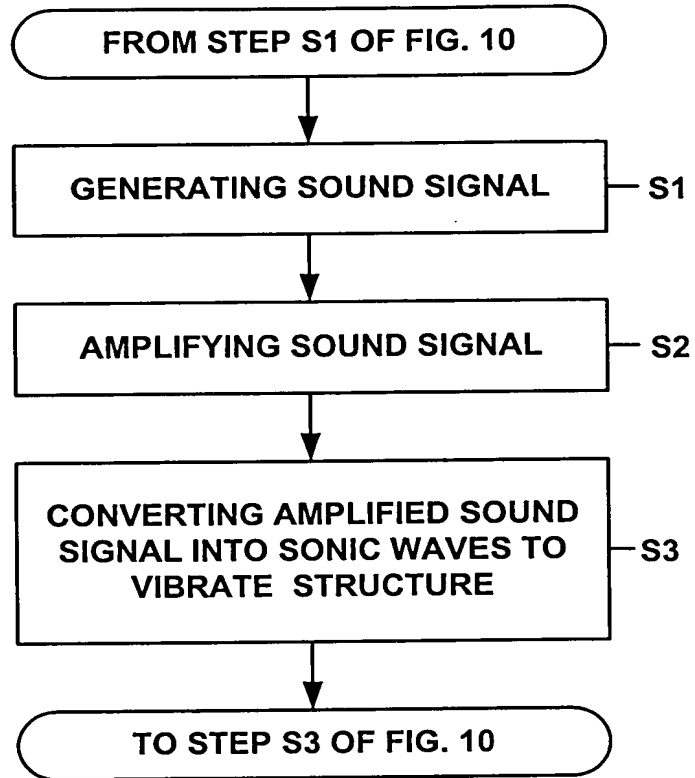


FIG. 11D

FIGURE 11E

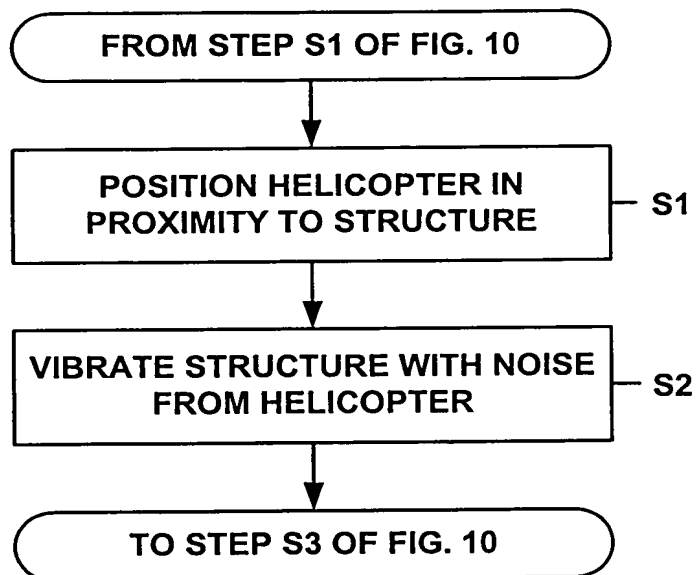


FIG. 11E

FIGURE 11F

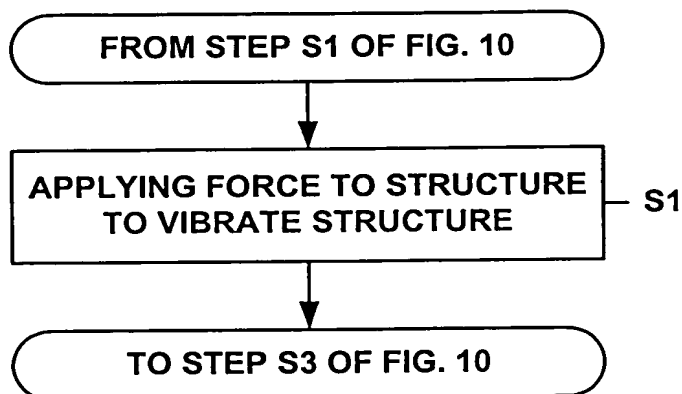


FIG. 11F

FIGURE 12

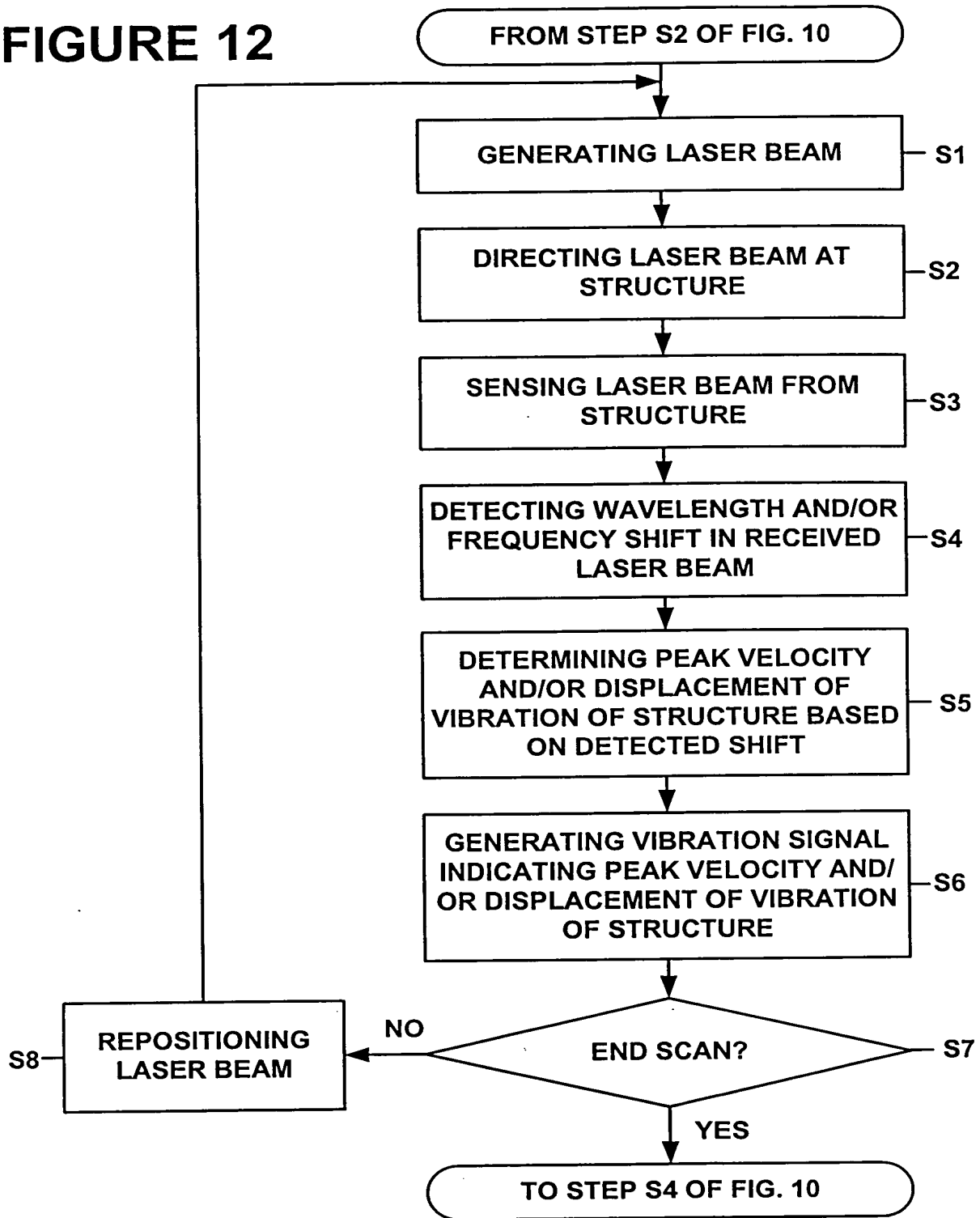


FIGURE 13A

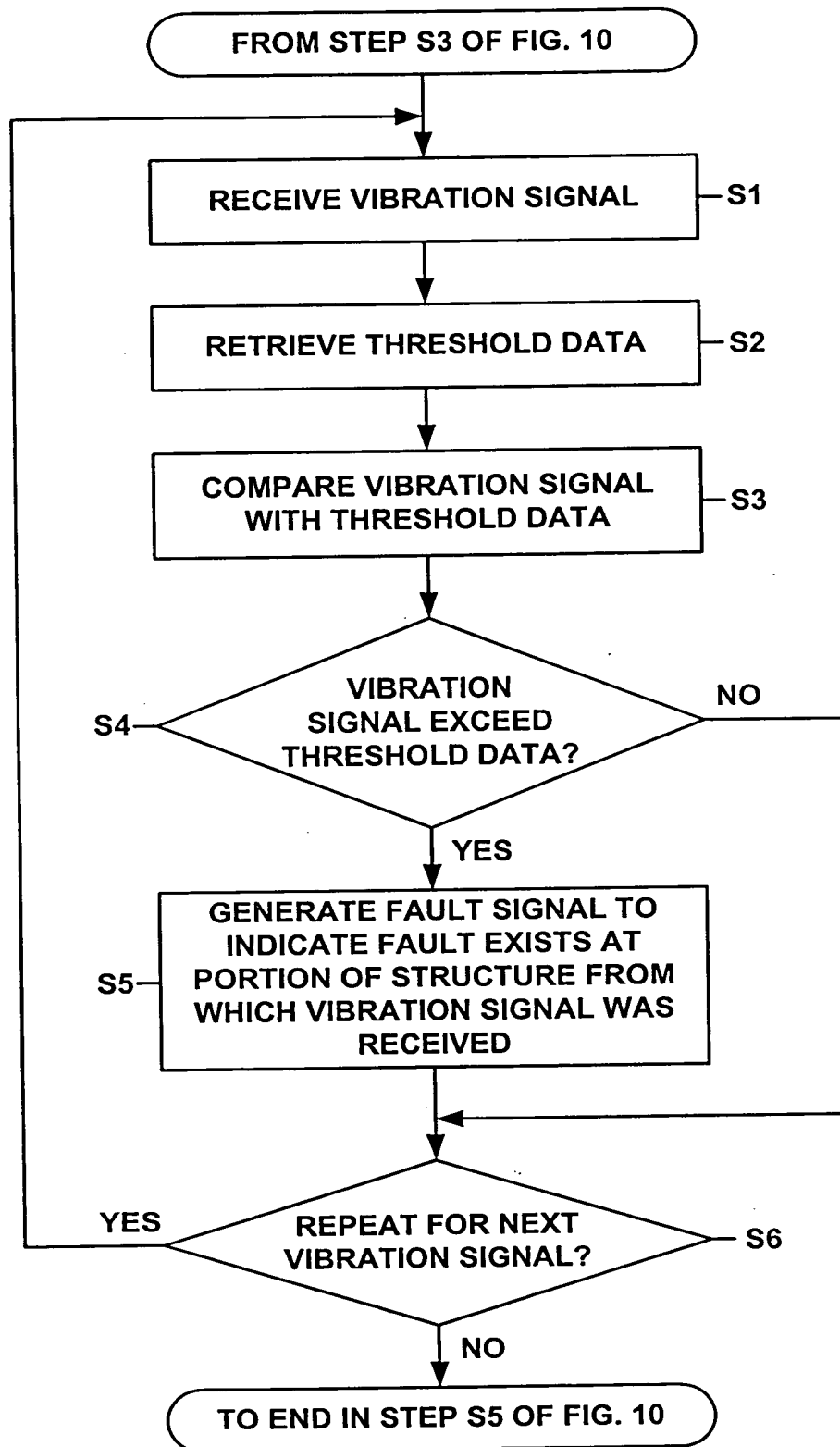


FIG. 13A

FIGURE 13B

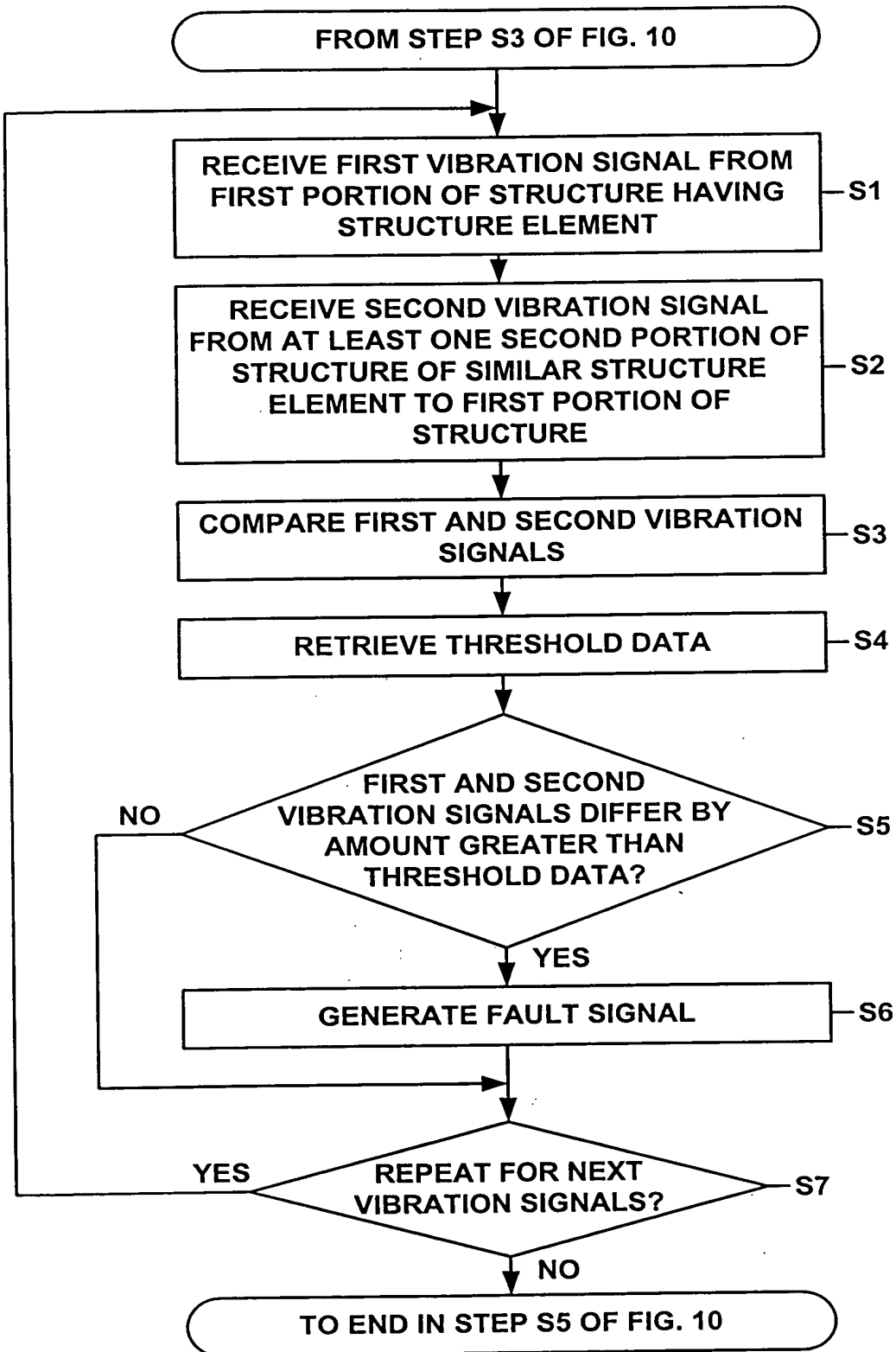


FIGURE 14

METHOD FOR
DETERMINING
WHETHER FAULT
EXISTS IN
STRUCTURE USING
BASE LINE DATA

